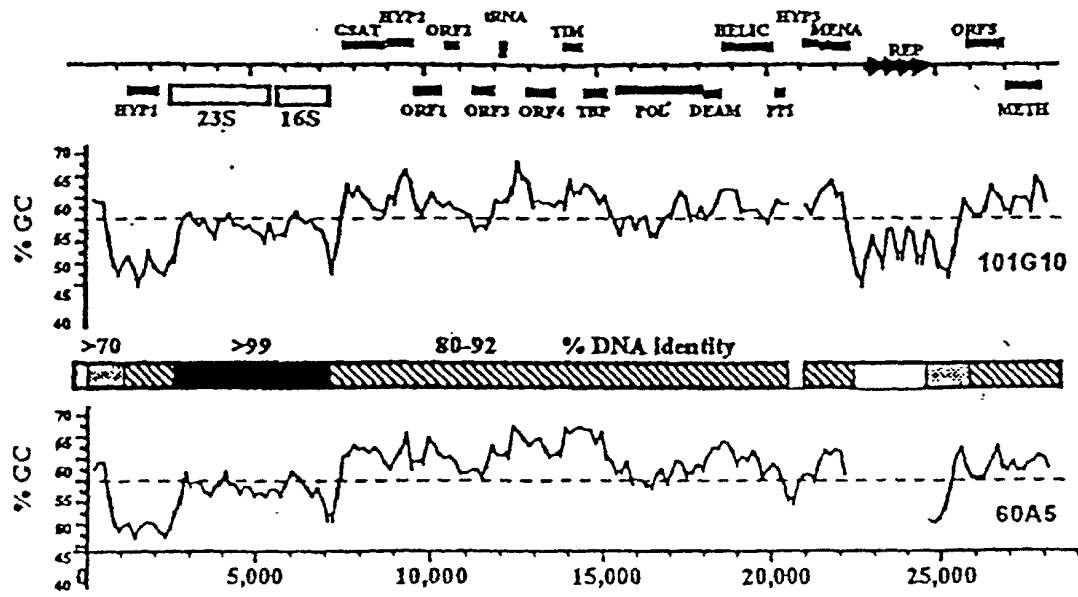


FIGURE 1



201450:00162001

FIGURE 2

Seq ID	No	Gene	Strain	TATA Box	Coding Start	TATA to Start (bp)
81	Hypoth 03	A	AAGCTAGACT TTTAAT TGGG ATCCGGCGGG GCGGCGCATG	-----	-----	25
82		B	AAGCTAAACT TTTAAT TGGG ATCCGGCGAG CCGGCGCGTG	-----	-----	
83	Hypoth 02	A	GGAACTTTG ATTATA CGGG CGTGCTGCCC CGGGGCCCAT G-----	-----	-----	26
84		B	GGAACTTTG ATTATA CGGG CGTACATTCC CGGGGCCCAT G-----	-----	-----	
85	ORF 02	A	AAGGCAAGGT AATAAT AGCC TGCCGTCTGT AACGGCCGTA TG-----	-----	-----	27
86		B	ACGGCAAGGT AATAAT AGCC TGCCGTCCGT ACCTGCCGTA TG-----	-----	-----	
87	ORF 03	A	CATGGAACTA GATAAT AACC GGTTCGCGG ATCCCATGCA TG-----	-----	-----	27
88		B	CATGGAACTA GATAAT AACC GGTCCCGCG GTACAATGCA TG-----	-----	-----	
89	PPI	A	ATACCGAGAA GTTATA GCAG GGTATGGAAT GTGCGCGCGC ATG-----	-----	-----	28
90		B	AGCAGGACAA GTTATA GCAG GGTACAAAG AGCAGCGCAC ATG-----	-----	-----	
91	GSAT	A	ATCCGCCCTG ATTAAA TTAT GGGGGAGCG GCCTGCTGCC GTG-----	-----	-----	28
92		B	ATCCGCCCTC ATTAAA TTAC GGGGGGTACA ACCTGCTGCC GTG-----	-----	-----	
93	ORF 05	A	CCTTCATACA CATAAA TCCC GCCTGGATGT GCGGCTGCGC ATG-----	-----	-----	28
94		B	ACTTCATACA CATAAA TCCC GCCTGAACGG TCGTCCGCGC ATG-----	-----	-----	
95	deaminase	A	GGCATATAC CATAAT ATGC CGGGCGGTGG CACCATGGCC GTTG-----	-----	-----	29
96		B	CCGCATATAC CATAAT ATGC CGGGCGGGGG CAGGCTGCC GTG-----	-----	-----	
97	RNA helic	A	TGTACGAAAC CATAAA ACAA CAGGCCGCGT CAGGGCCGCG CGTG-----	-----	-----	29
98		B	GGGTAGAAAC CATAAA ACAA CAGGCCGCGG CAGGGCG CG CGTG-----	-----	-----	
99	ORF 06	A	..ACACGCAG TATAAA CGGG GGCCCGGGCG GCGCGTATCA CATG-----	-----	-----	29
100		B	ATACACGTGG TATAAA CAGA GG.CCGGACG GCGCGGACCA CATG-----	-----	-----	
101	tRNA-tyr	A	GCGATAGTTA TTTAAA ACTA GGATGCCGAT CACGGATCGT CCGA-----	-----	-----	29
102		B	GCGATAGTTA TTTAAA ACTA GGATGCCGGG CACCCGTCGT CCGA-----	-----	-----	
103	TBP	A	CCGGGCCCCG GTTAAA ATAG CG.CACGGGC GGATCCTGAC CAATG-----	-----	-----	30
104		B	CCGGGCCCCG GTTAAA ATAG AGTGCGGCCG GGCACCGGAT CAATG-----	-----	-----	
105	THH	A	GCGTCGATAG AATAAA TACG CGCAGGGGGC CCCGTGGCGC GATCGCCCGT G-----	-----	-----	36
106		B	GCGTCGATAG AATAAA TACG CGC.GGGGCC GCGGTGC... GATCGCCCGT G-----	-----	-----	
107	Hypoth 01	A	ATTTCAACTA CATAAA TGCC TAGTTACGCA GAAATAGCAA ACGACGTACT TCGACTAATG			45
108		B	ACTTCAACTA CATAAA TGCC TAGCTACGCA GAAATATCAA ACAAGTACT TCGACTAATG			
109	ORF 01	A	ACGGCAGGCT ATTATT ACCT TGCCTTGCGT TGTA ///.G CGGGTGCGG CAGGGGATG			52
110		B	ACGGCAGGCT ATTATT ACCT TGCCGTGTG. TACA ///.G AGGGGGCTG CCGGGAGTG			
111	Methylase	A	CTACAACGAT TTTAAG TCGG CGCCGGGGCA GCCG.///.G ATGTGGGGCA GGCAACATG			104
112		B	CTACAAAGAT TTTAAG ACGG CGCGGTGCC GCCG.///.T GGCACGGGG CCTATCTTG			
113	16S RNA	A	TCGGCGATGG TTTATA TGCC CATGGACGGG CCGATCCGAT CGTACGTGAC GC.///.AAT			220
114		B	CCGGCGATGG TTTATA TGCC CATGGACAAG GCGATCCGAT CGTACGTGAC GC.///.AAT			
Archaeal promoter consensus				YTTAWA		

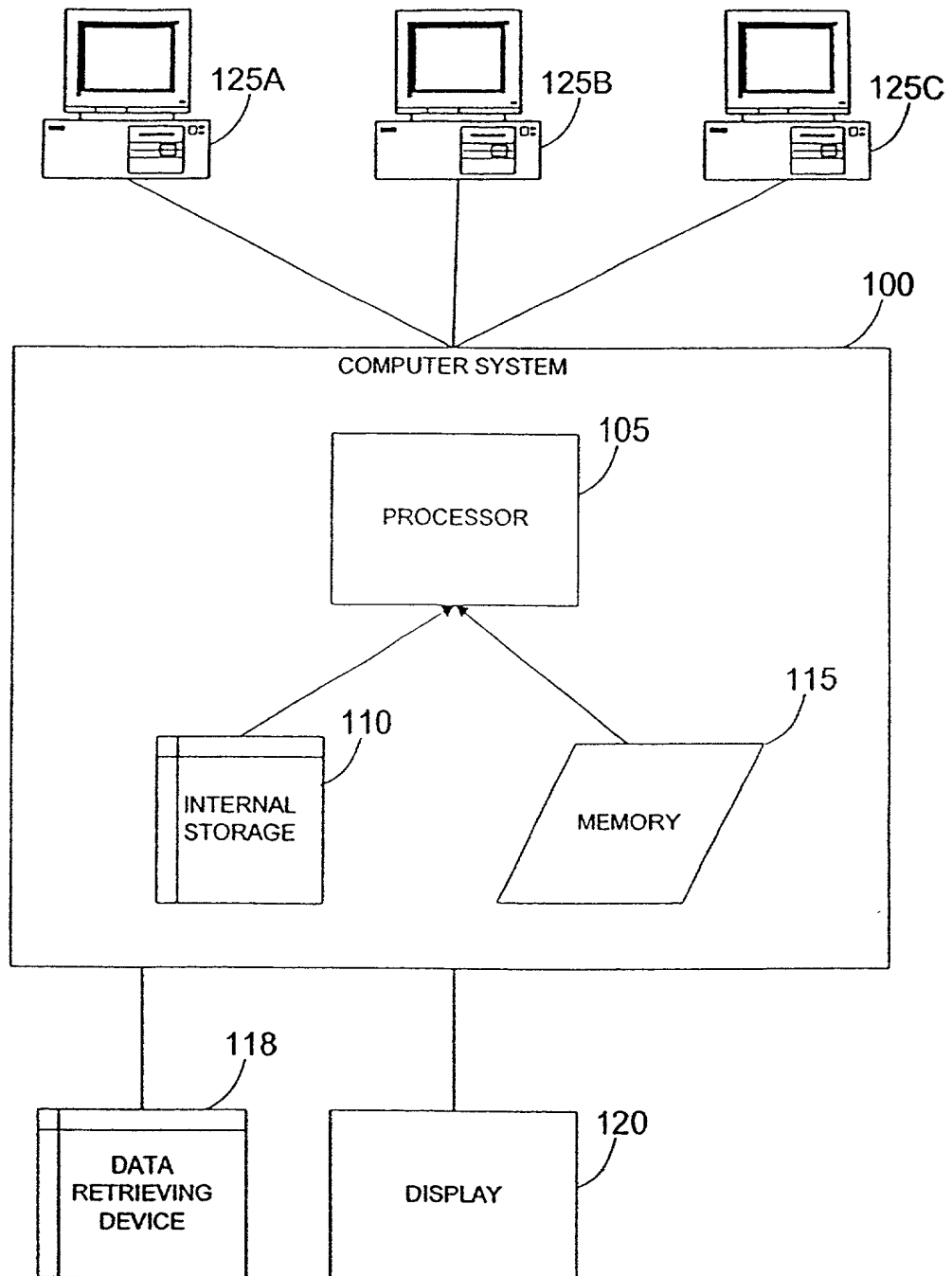


FIGURE 3

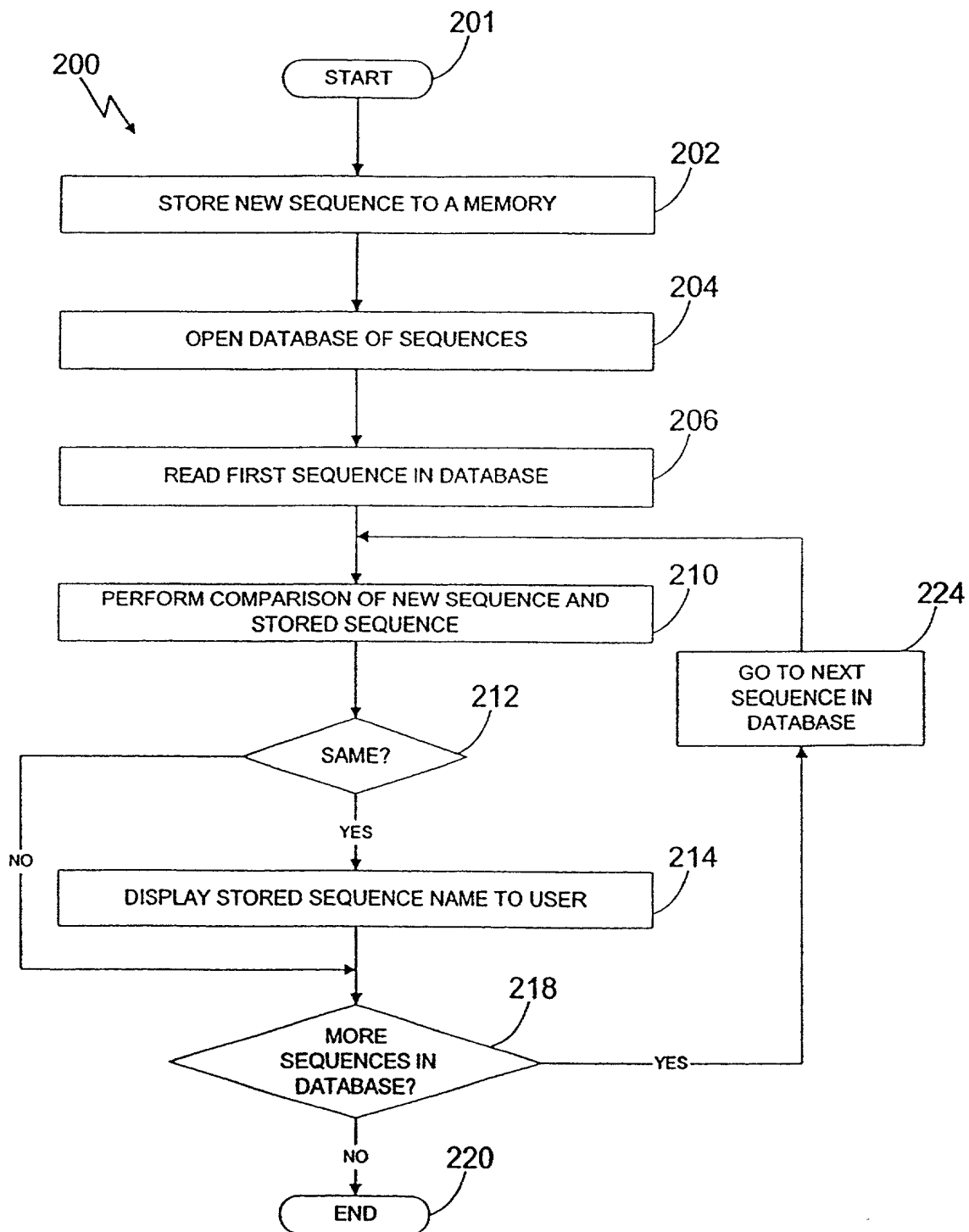


FIGURE 4

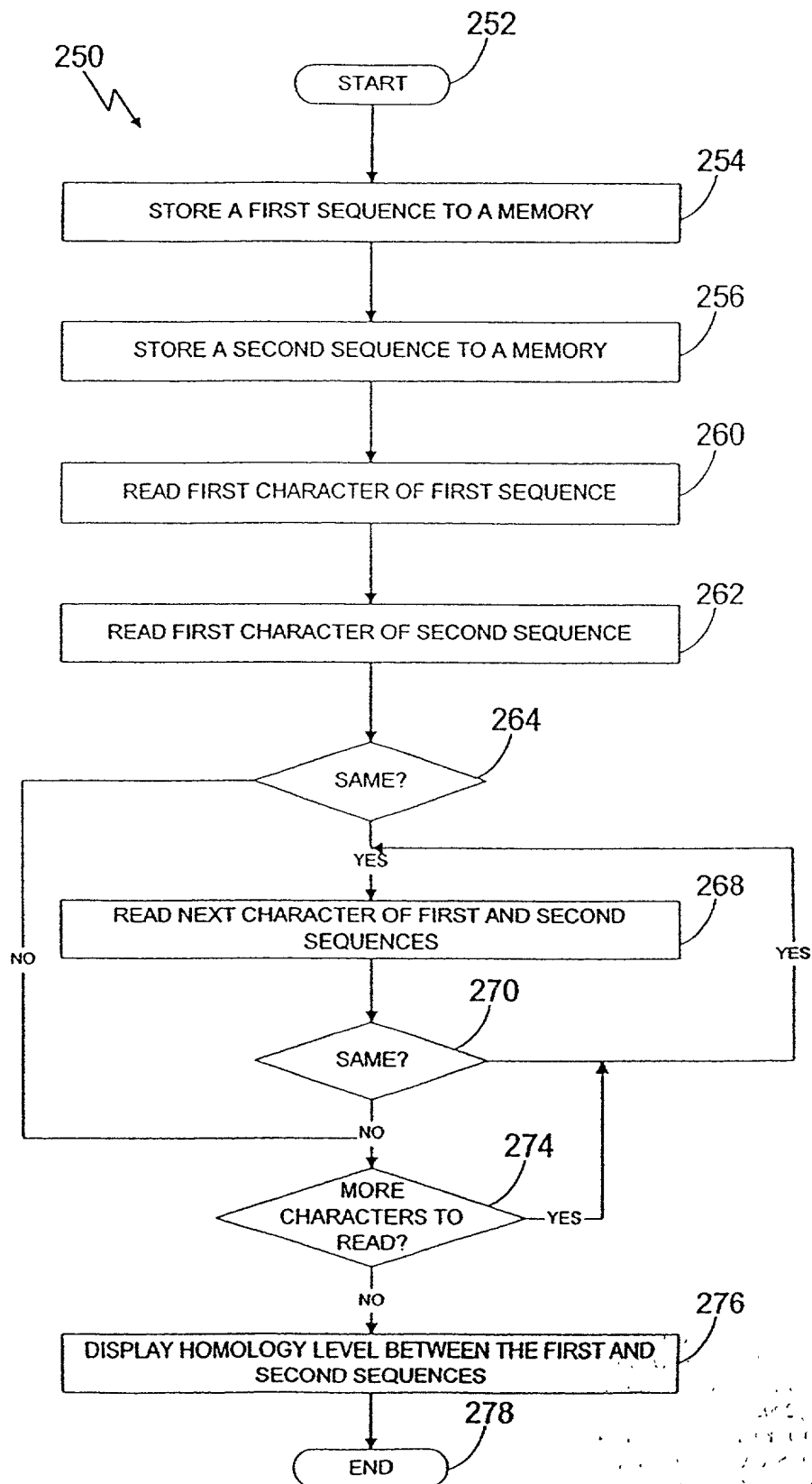


FIGURE 5

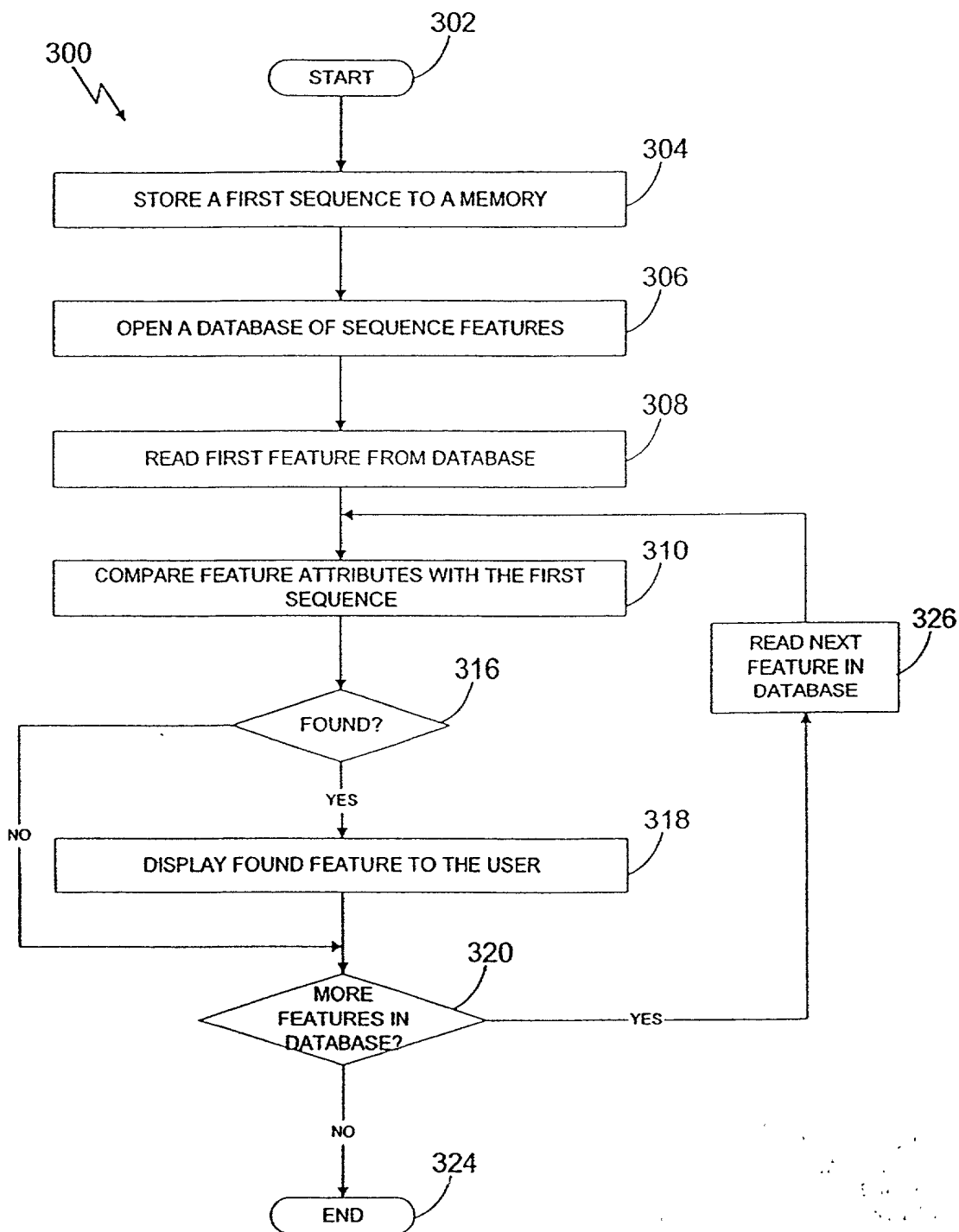


FIGURE 6